

**FIG. 2**

$$\left. \begin{array}{l}
 \text{INSERT:} \quad (\bar{\mathbf{p}}, \mathbf{c}) \rightarrow (\dot{\mathbf{P}}, \mathbf{c}, \mathbf{n}) \\
 \text{DELETE:} \quad (\bar{\mathbf{p}}) \rightarrow (\dot{\mathbf{P}}) \\
 \text{UPDATECOL:} \quad (\bar{\mathbf{p}}, \mathbf{c}) \rightarrow (\dot{\mathbf{P}}, \mathbf{c}) \\
 \text{UPDATEPOS:} \quad (\bar{\mathbf{p}}) \rightarrow (\dot{\mathbf{P}}_{old}, \dot{\mathbf{P}}_{new}, \mathbf{n}_{new}) \\
 \text{UPDATEPosCOL:} \quad (\bar{\mathbf{p}}, \mathbf{c}) \rightarrow (\dot{\mathbf{P}}_{old}, \dot{\mathbf{P}}_{new}, \mathbf{n}_{new}, \mathbf{c})
 \end{array} \right\}$$

300

*FIG. 3*

$$\left. \begin{array}{l}
 \text{fg}(\bar{\mathbf{p}}, t) \wedge \text{fg}(\bar{\mathbf{p}}, t-1) \wedge \neg \text{cd}(\bar{\mathbf{p}}, t, t-1): \text{color unchanged} \\
 \text{fg}(\bar{\mathbf{p}}, t) \wedge \text{fg}(\bar{\mathbf{p}}, t-1) \wedge \text{cd}(\bar{\mathbf{p}}, t, t-1): \text{color changed} \\
 \text{fg}(\bar{\mathbf{p}}, t) \wedge \neg \text{fg}(\bar{\mathbf{p}}, t-1): \text{new} \\
 \neg \text{fg}(\bar{\mathbf{p}}, t) \wedge \text{fg}(\bar{\mathbf{p}}, t-1): \text{expired} \\
 \neg \text{fg}(\bar{\mathbf{p}}, t) \wedge \neg \text{fg}(\bar{\mathbf{p}}, t-1): \text{background}
 \end{array} \right\}$$

400

**FIG. 4**

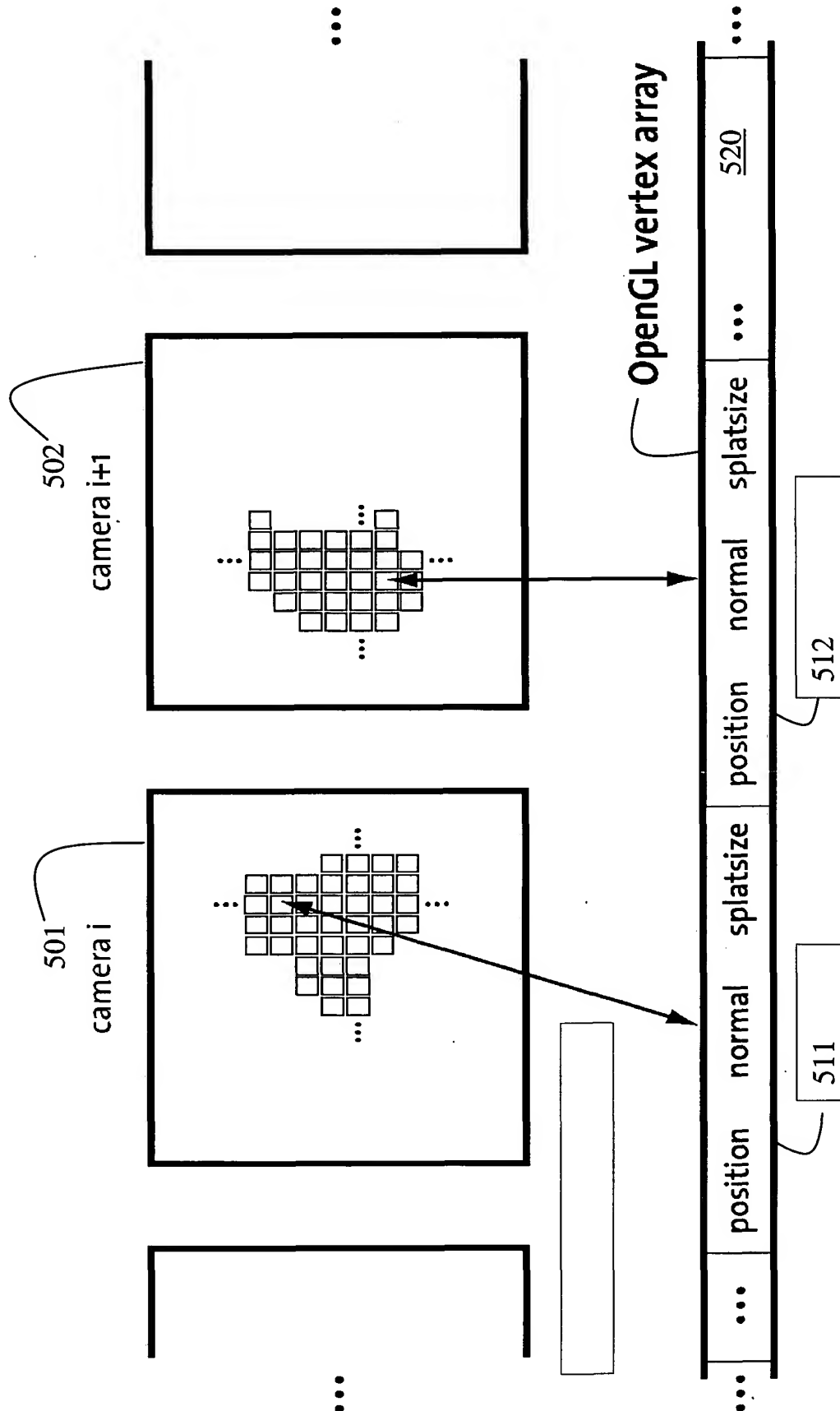


FIG. 5

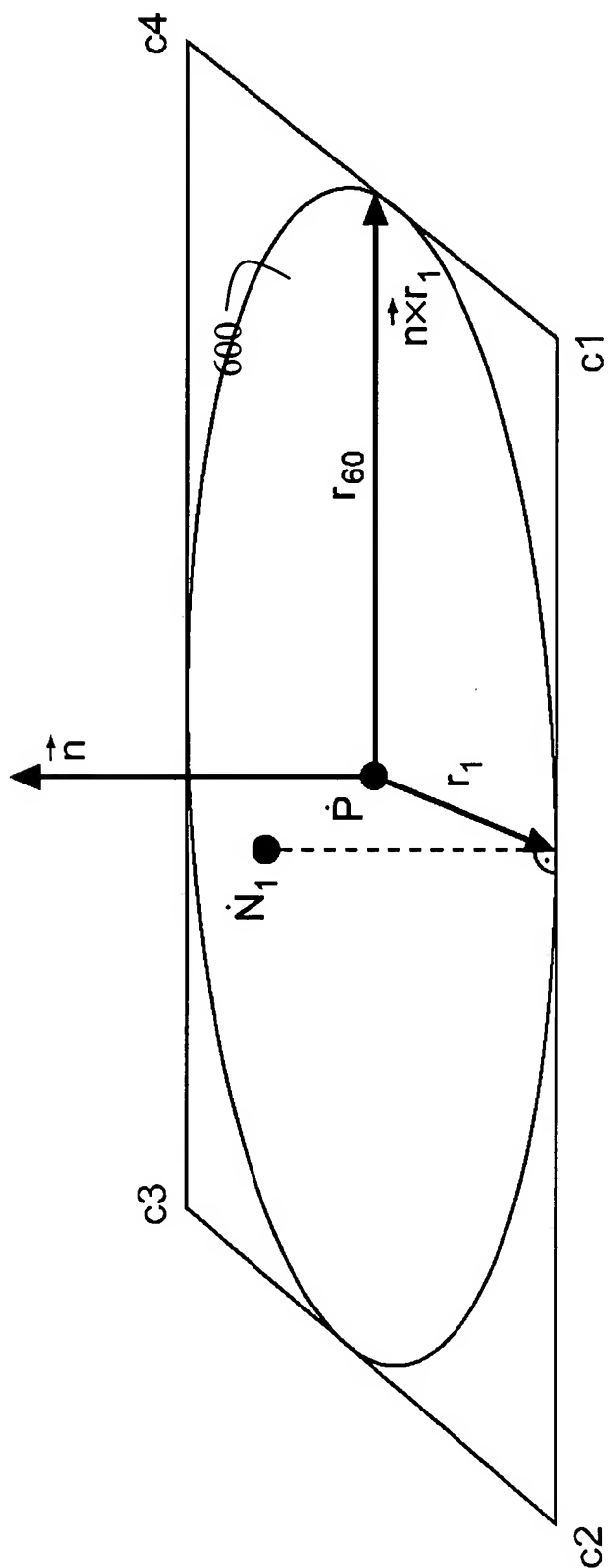


FIG. 6



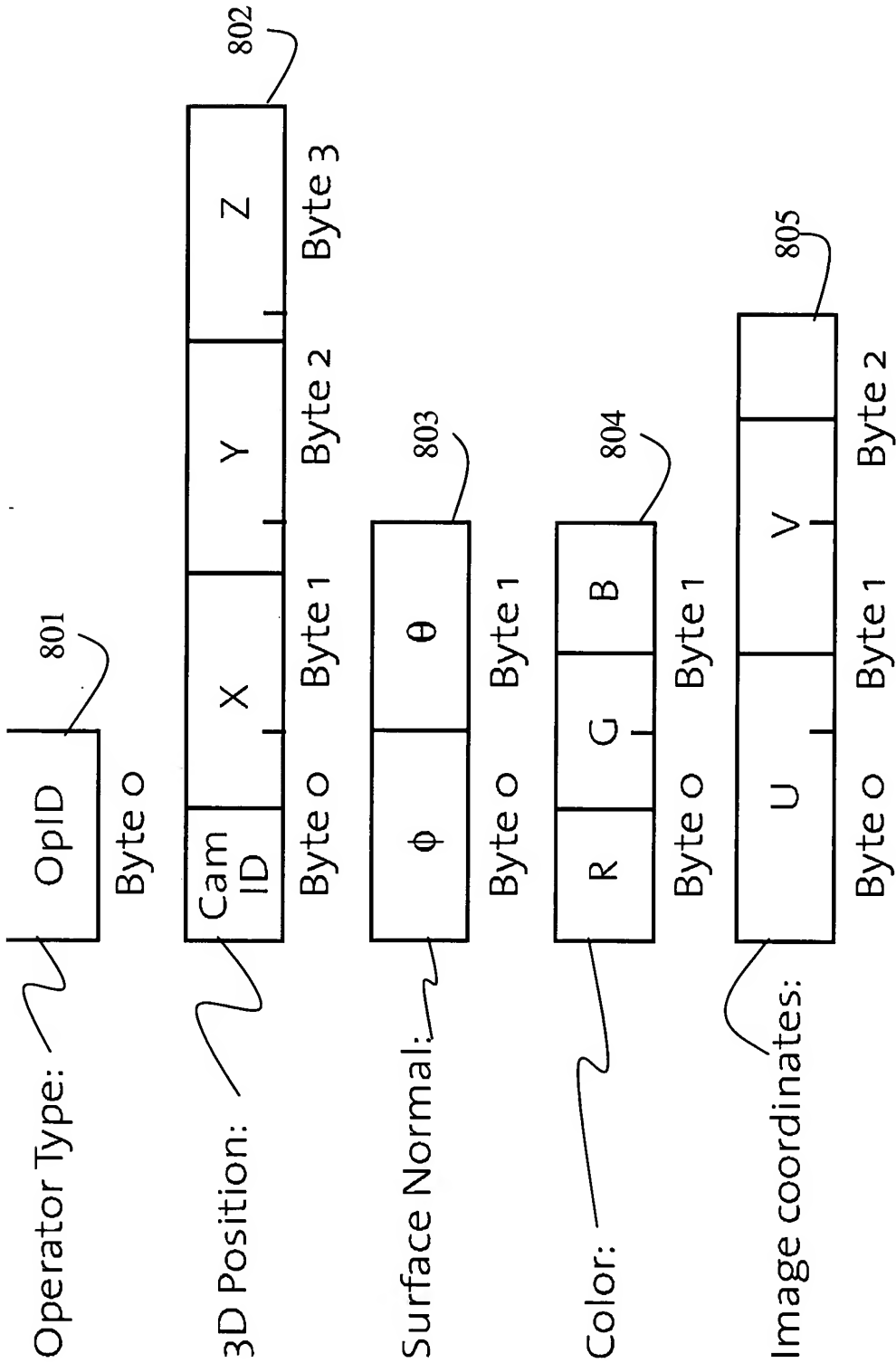


FIG. 8



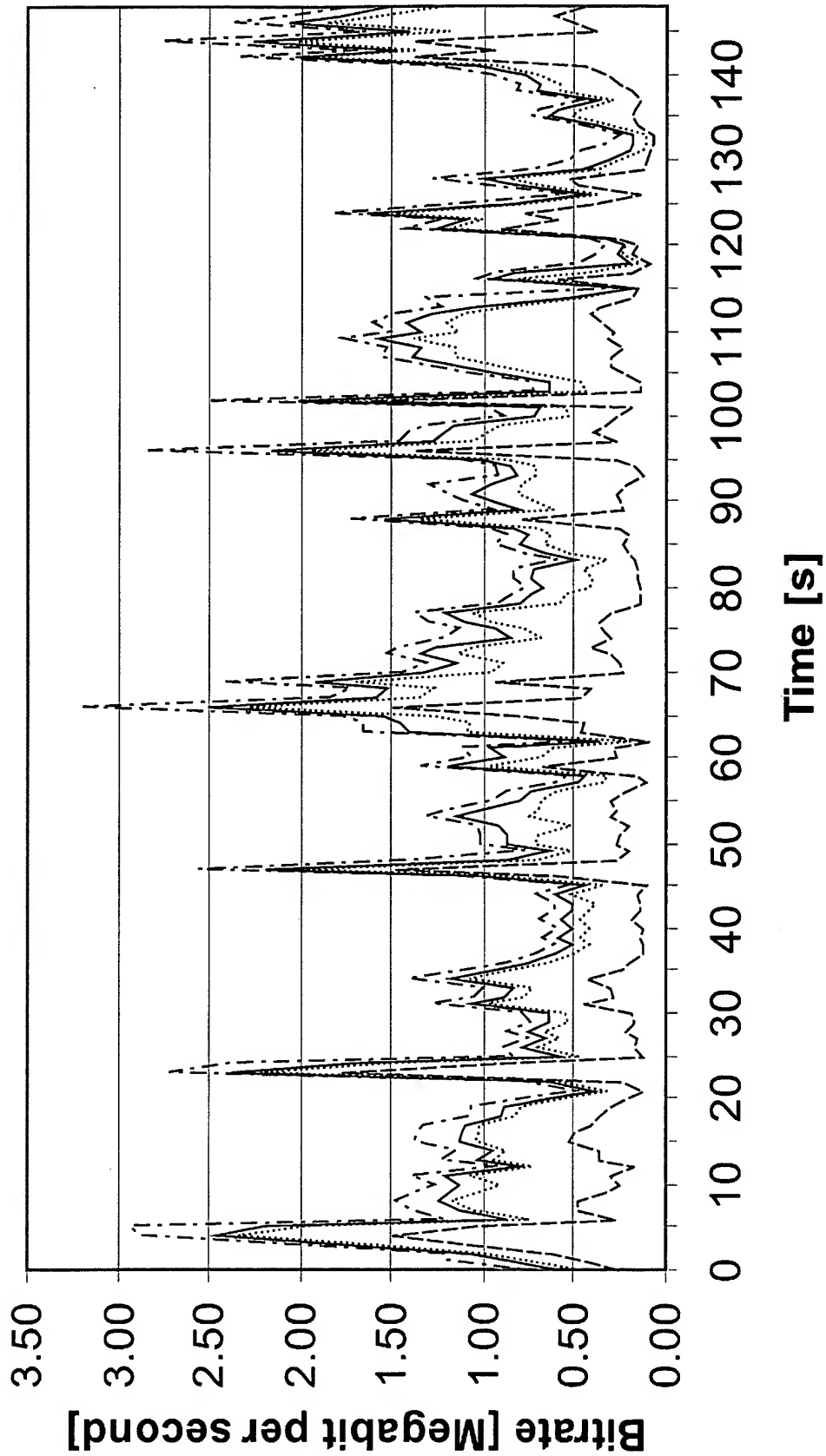


FIG. 9